

1000425 4 4 004

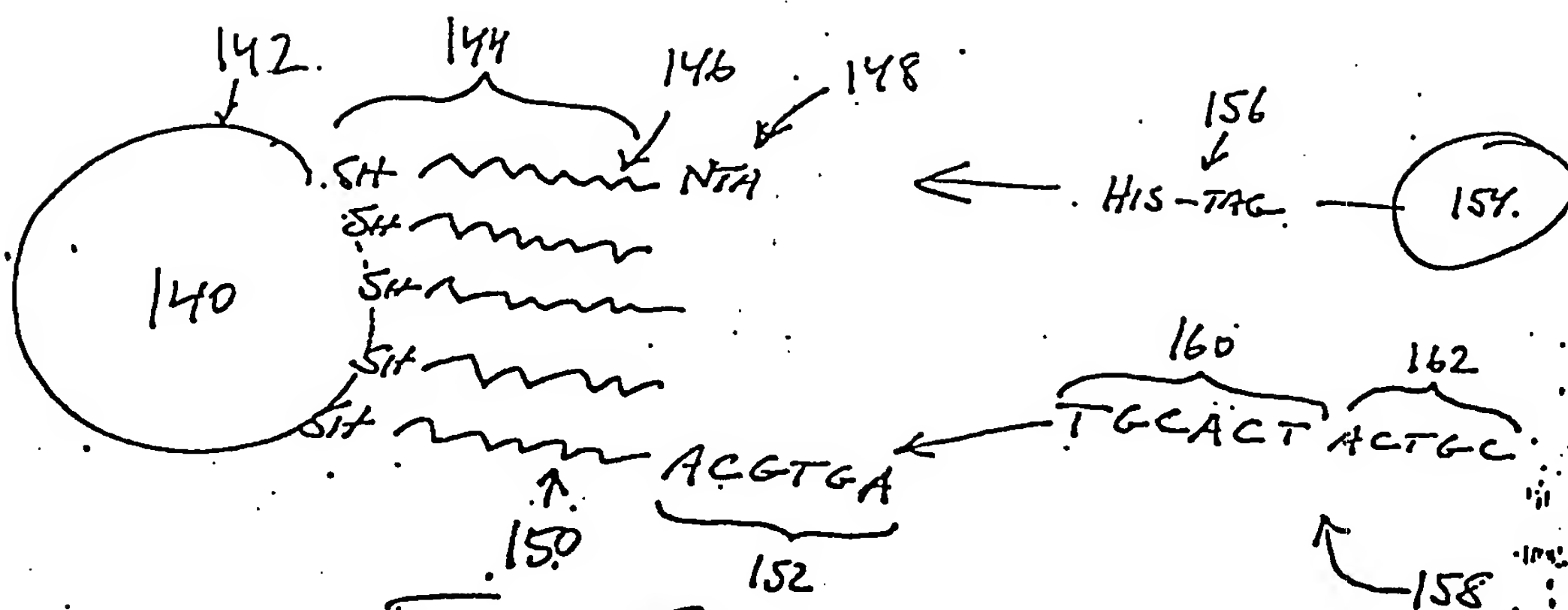
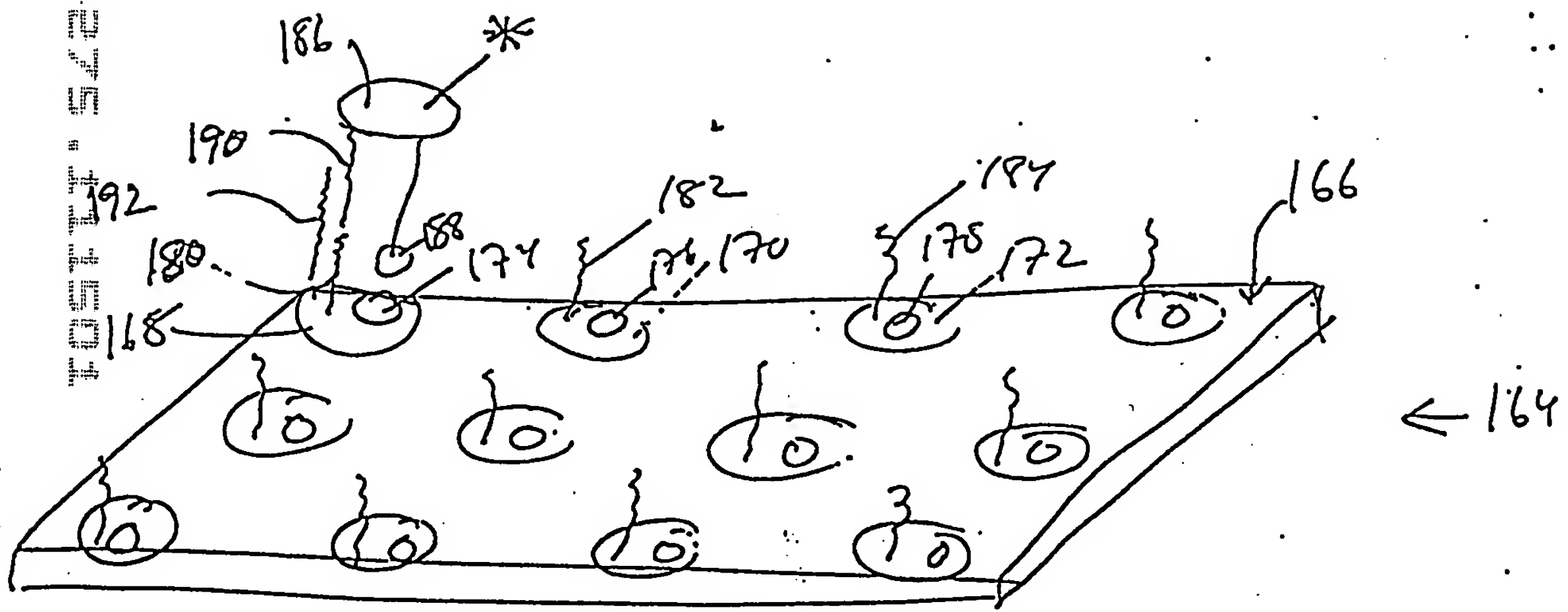


Fig. 1



~~FIG. 49~~
FIG. 2

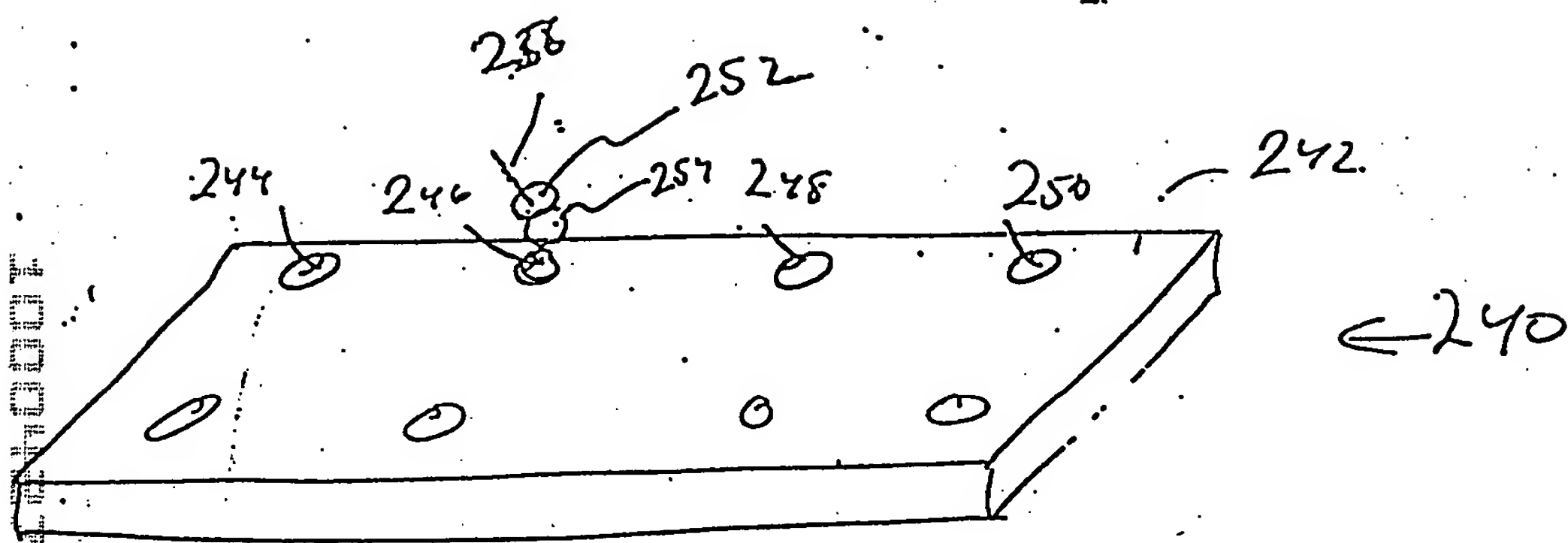


FIG 33

FIG. 3

Add Complementary DNA to "DNA priming region"
+ sequence using standard PCR methods:

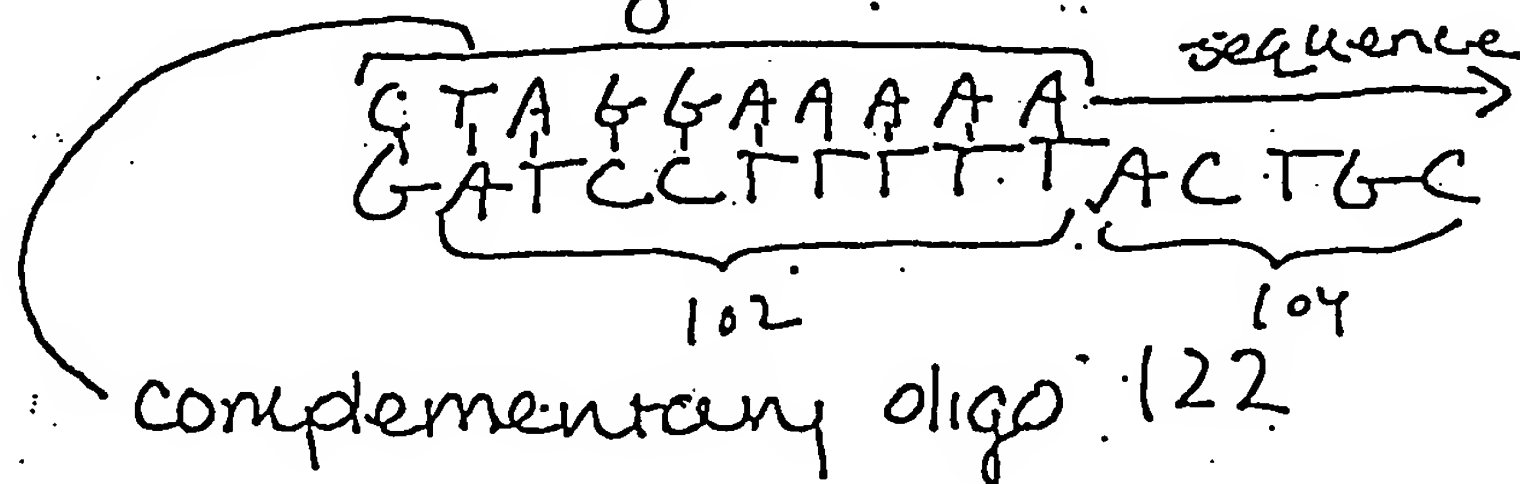


Fig 38
5

match up resulting sequence data with
records kept that connect protein
identity to sequence:

ACTGC = protein # 120
(species)
104

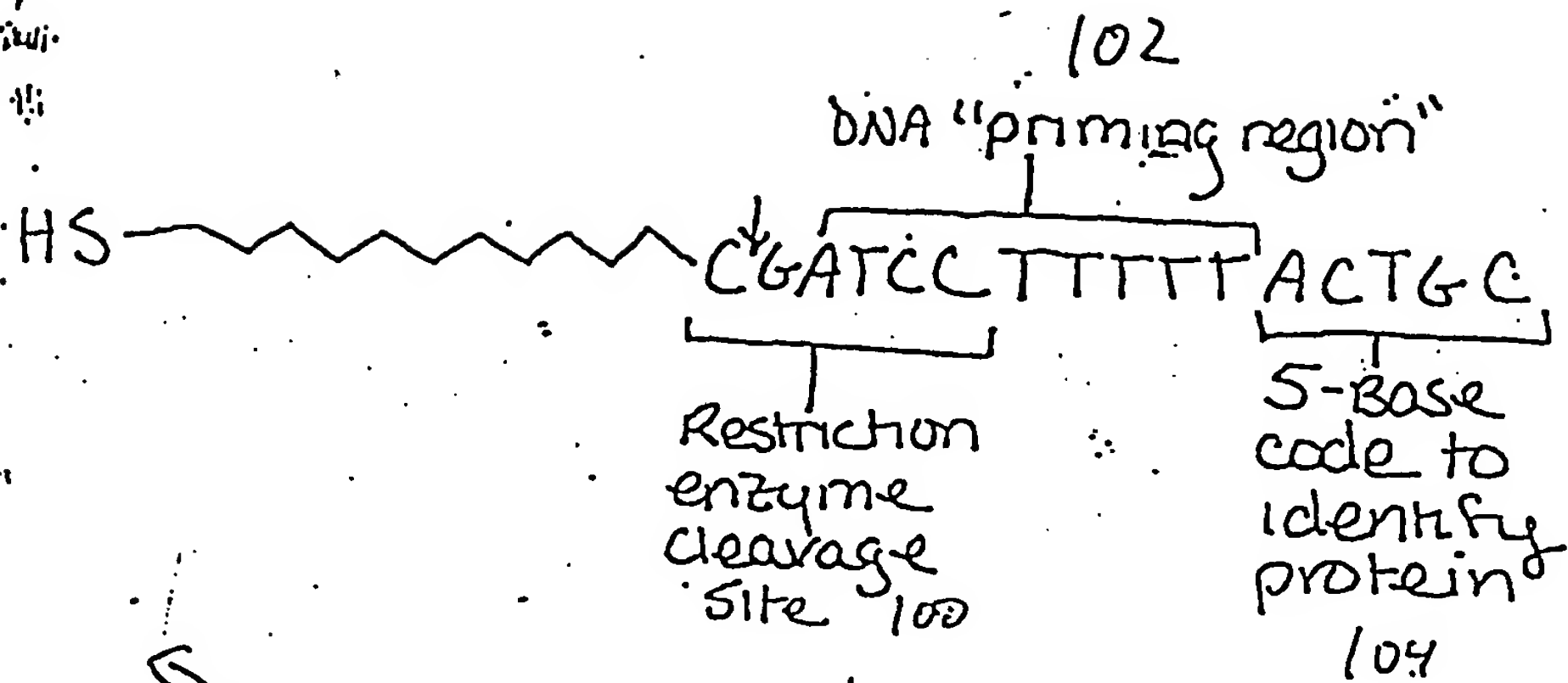


Fig. 34

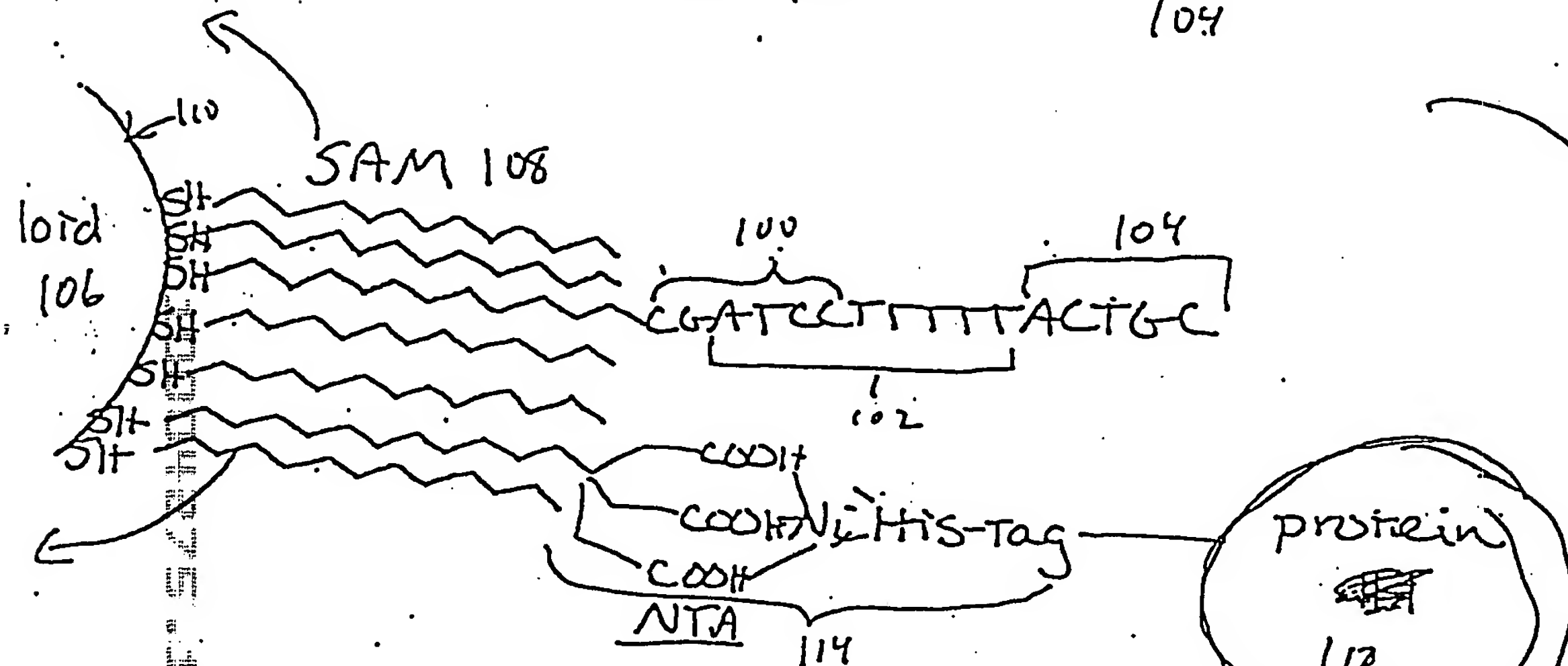
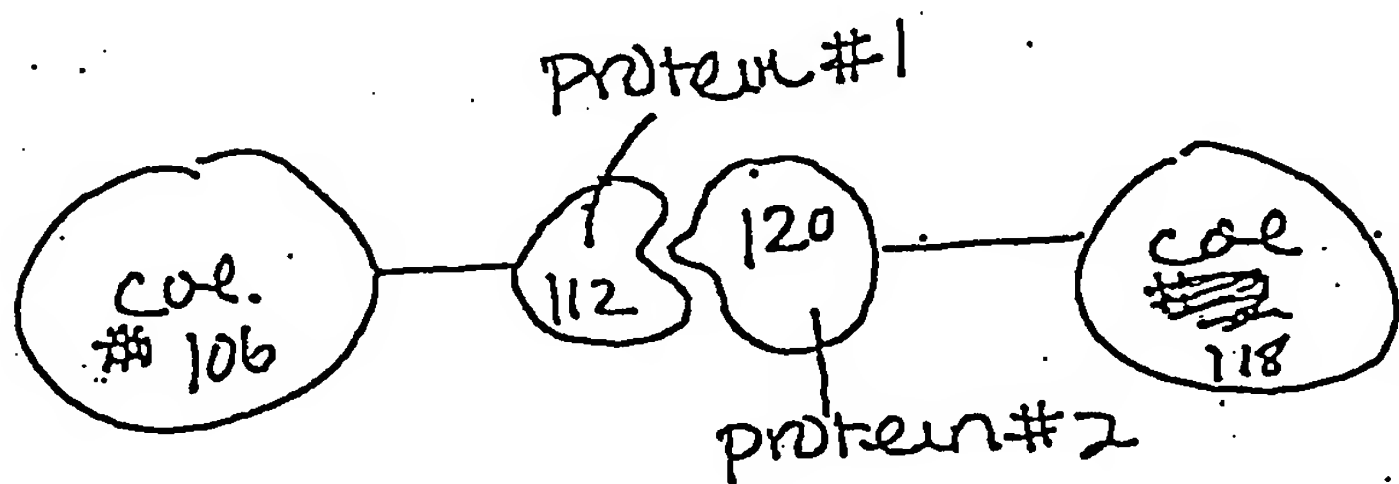


Fig. 35
Fig. 6

Oligo that is incorporated into SAM along with NTA on colloid. His-tagged protein is attached to colloid via NTA-Ni.



protein, bound to colloid is allowed to participate in binding assays.

Fig. 36 7

4. To uncover the identity of protein after the assays are completed, cleave the DNA portion of the DNA-thiol by addition of a restriction enzyme:

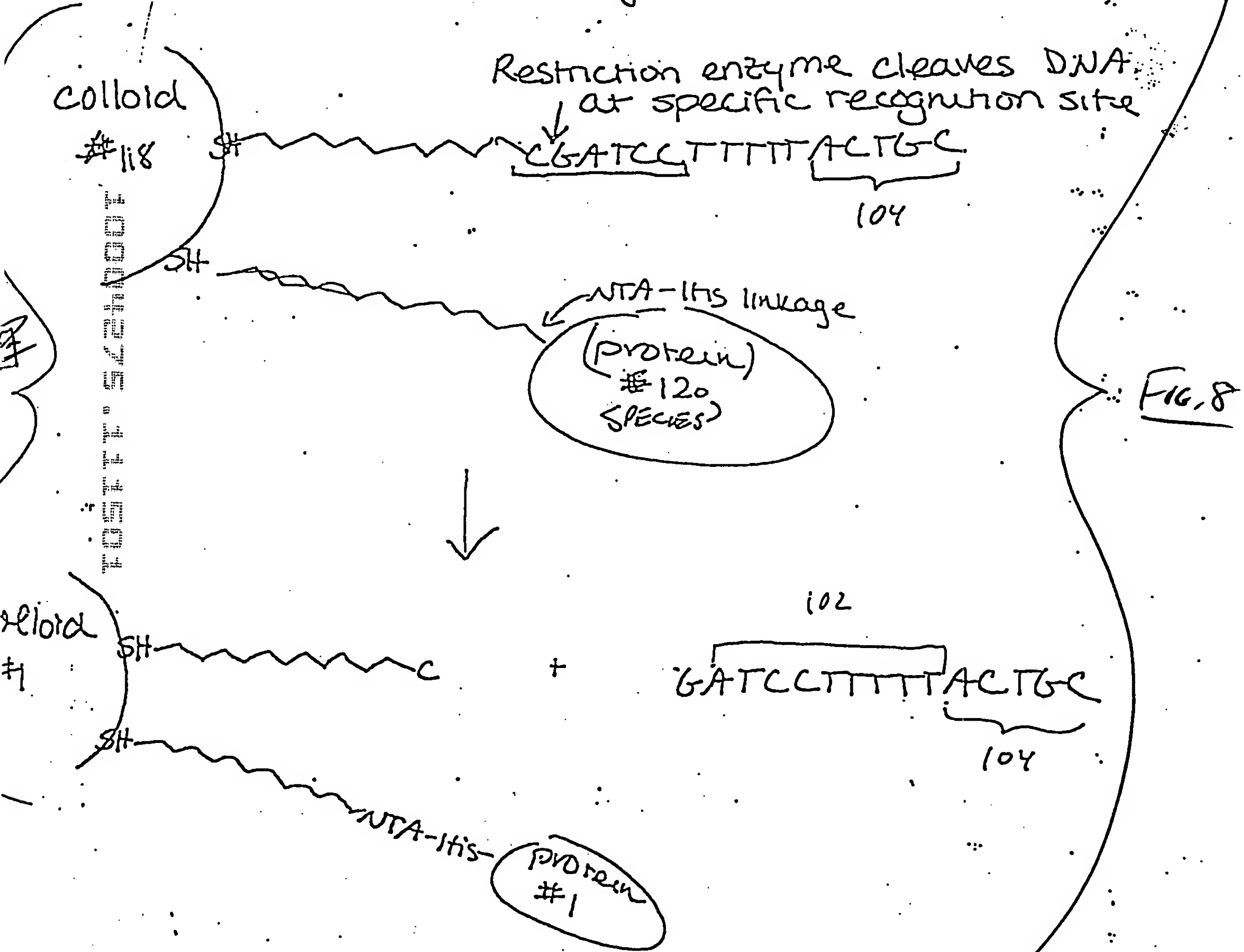
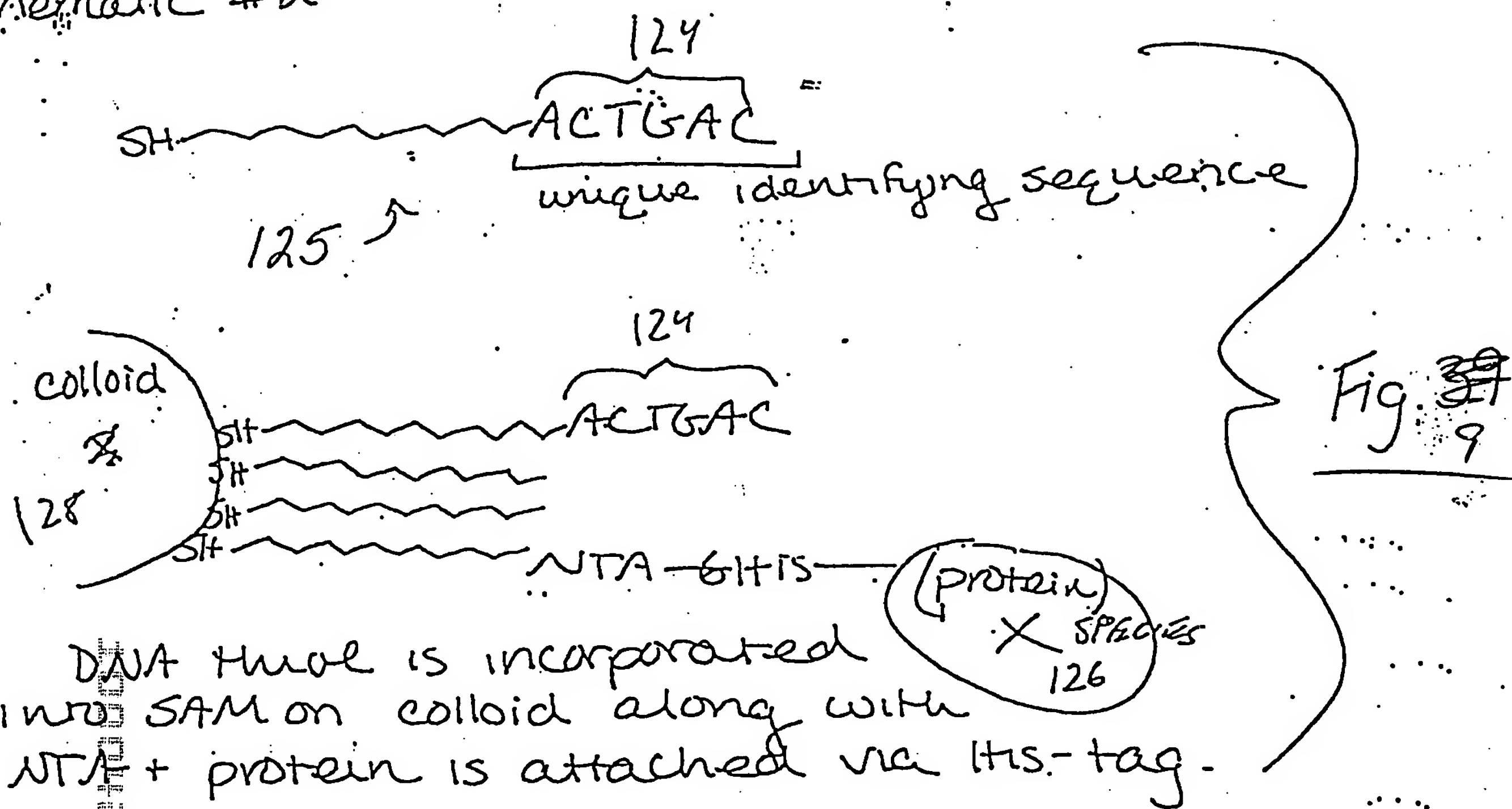
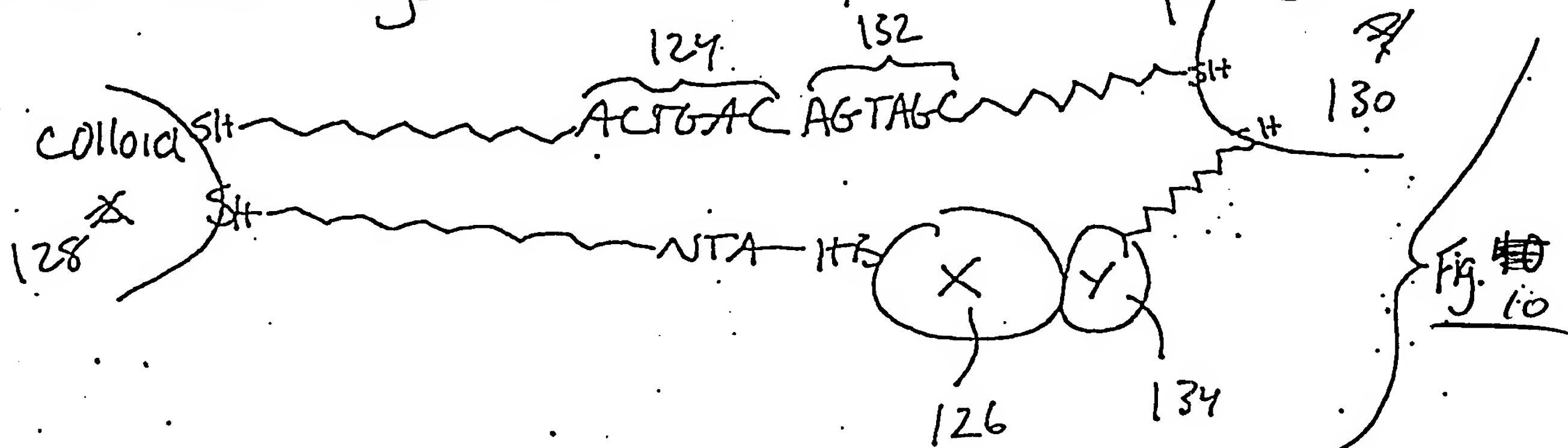


FIG. 8

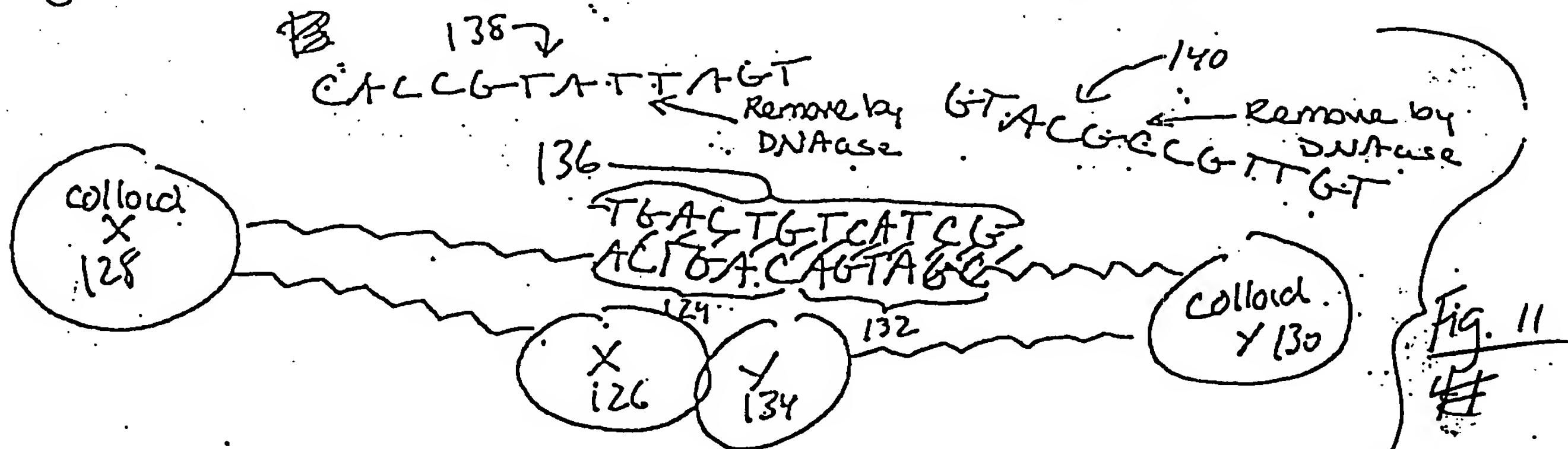
chemo #2:



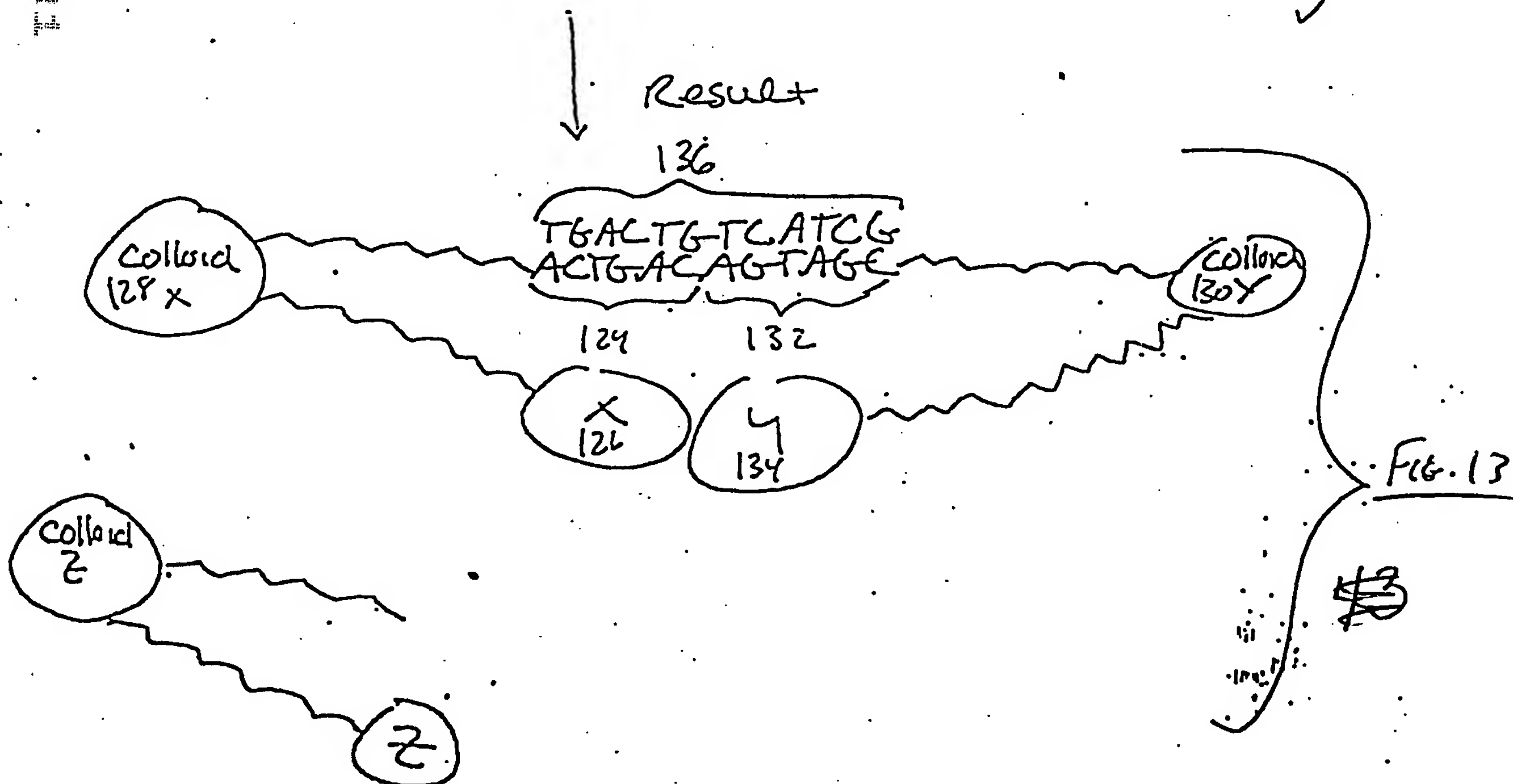
colloids bearing proteins or small molecules are allowed to interact. Binding of protein X to small molecule Y ~~allows~~ brings their DNA tags into close proximity / colloid



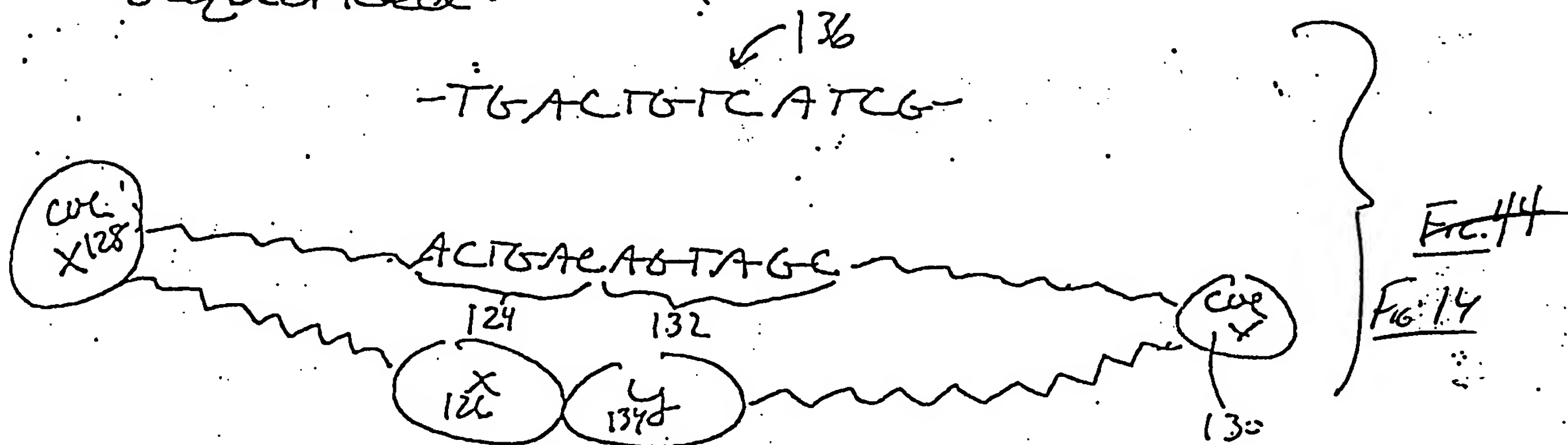
2. Complementary sequences to ~~function~~ DNA tags are added + allowed to bind.



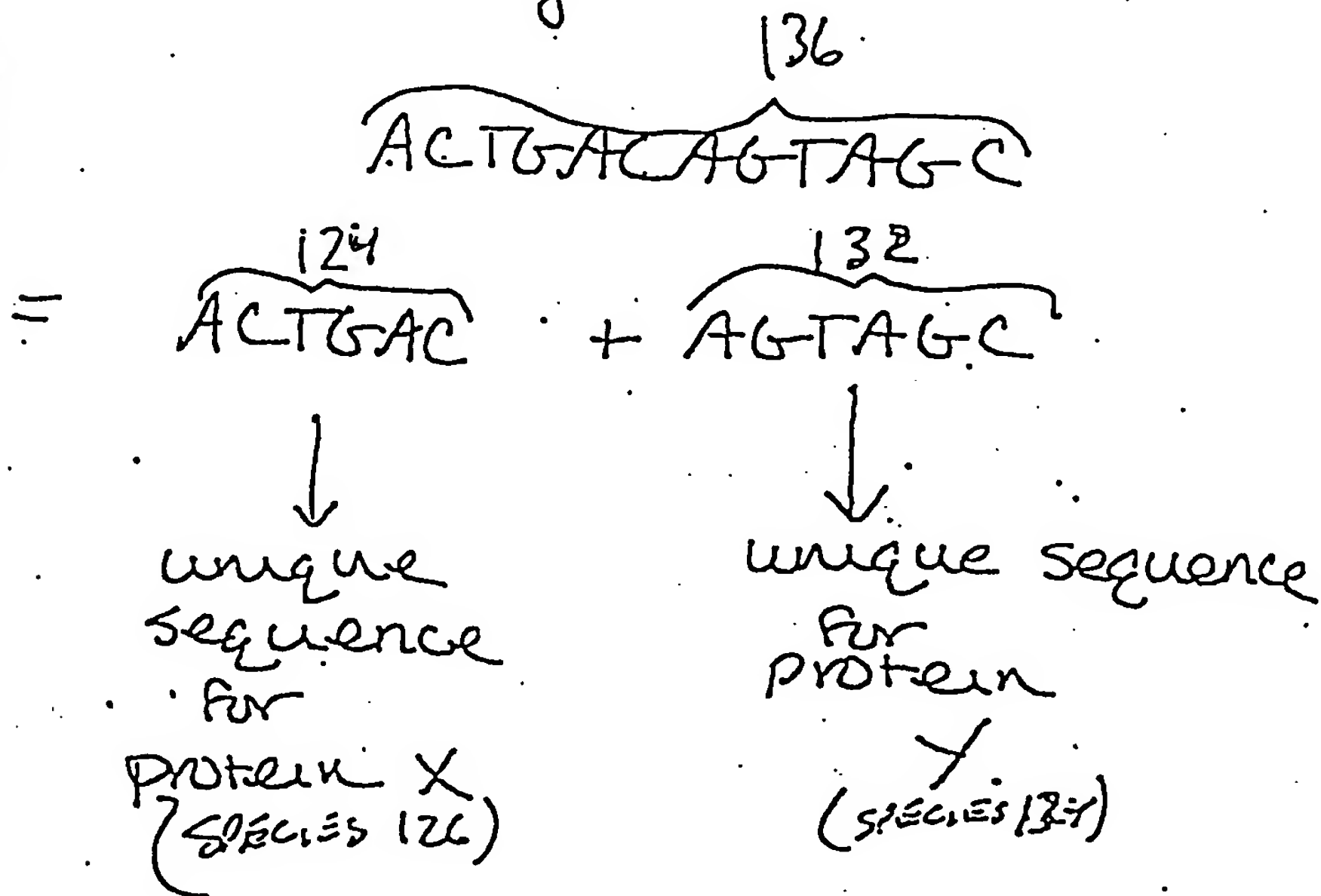
Single-stranded DNAase is added to remove (or "chew up" any ~~str~~ non-hybridized DNA.



2. Complementary DNA is denatured and sequenced.



Resulting sequence contains the unique DNA codes of the two binding partners, $X + Y$:



~~Fig. 14~~
~~45~~
Fig. 15

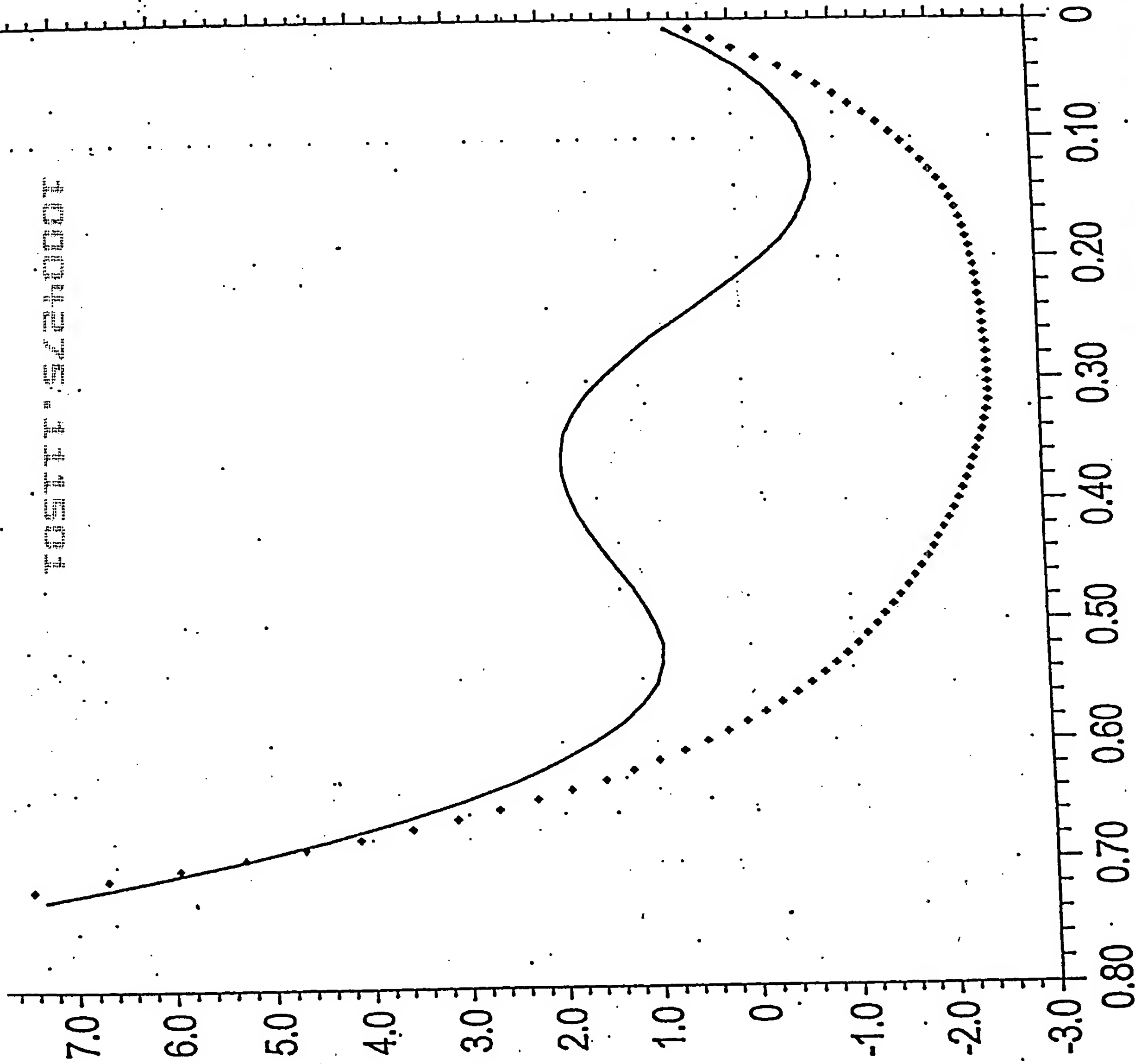
Protein X + Protein Y must be binding partners.

Tech: ACV
File: negconbb.bin

Init E (V) = 0
Final E (V) = 0.8
Incr E (V) = 0.008
Amplitude (V) = 0.025
Frequency (Hz) = 10
Sample Period (s) = 1
Quiet Time (s) = 2
Sensitivity (A/V) = 1e-5

◆ negconbb.bin
— posconb.bin

AC Current / 1e-7A



Potential / V

FIG. 16

~~Fig. 26~~
~~Fig. 27~~

lecn: ALV
File: sb062_007bb

Init E (V) = 0.1
Final E (V) = 0.7
Incr E (V) = 0.008
Amplitude (V) = 0.025
Frequency (Hz) = 10
Sample Period (s) = 1
Quiet Time (s) = 2
Sensitivity (A/V) = 5e-4

— sb062_007bb
○ sb062_012bb.bin

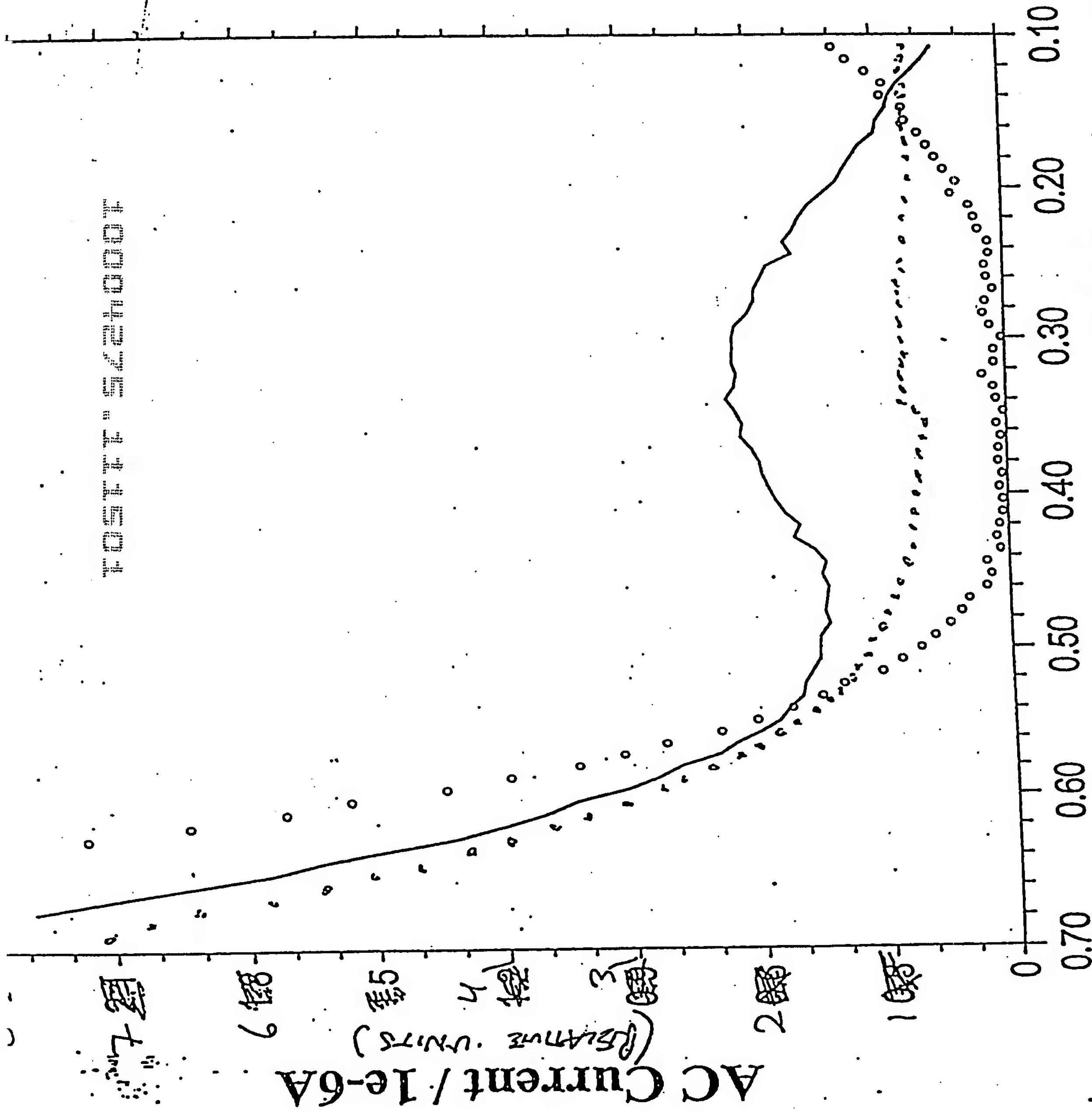


Fig. 17

Potential / V

~~Fig. 18~~

~~Fig. 19~~

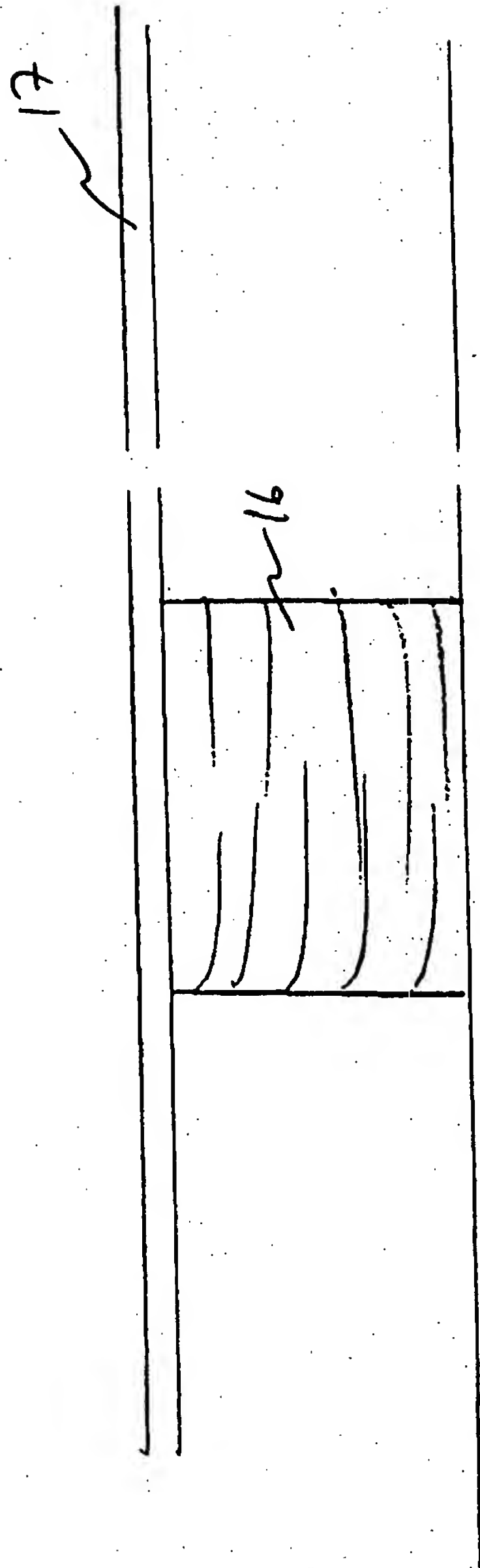
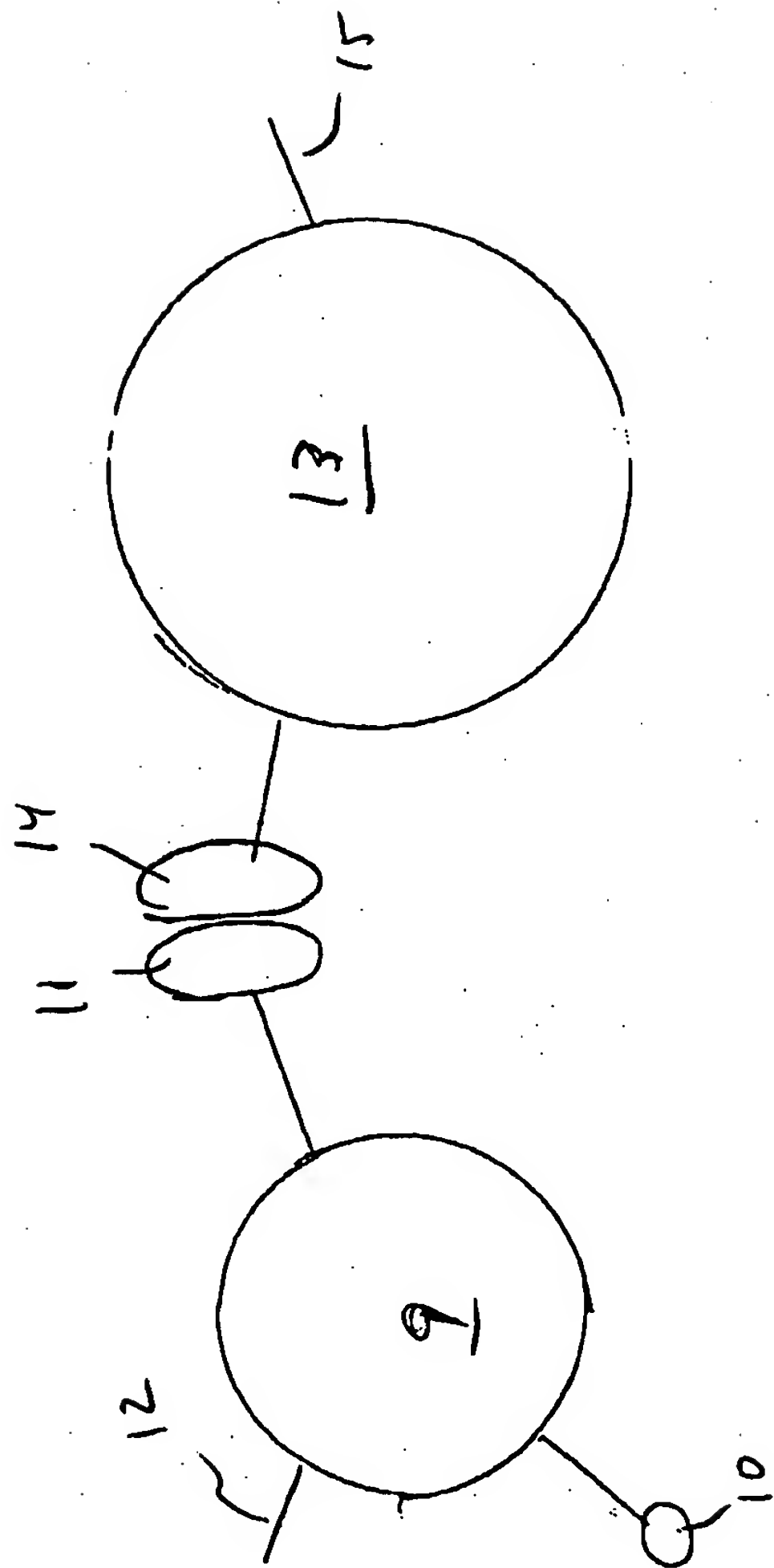
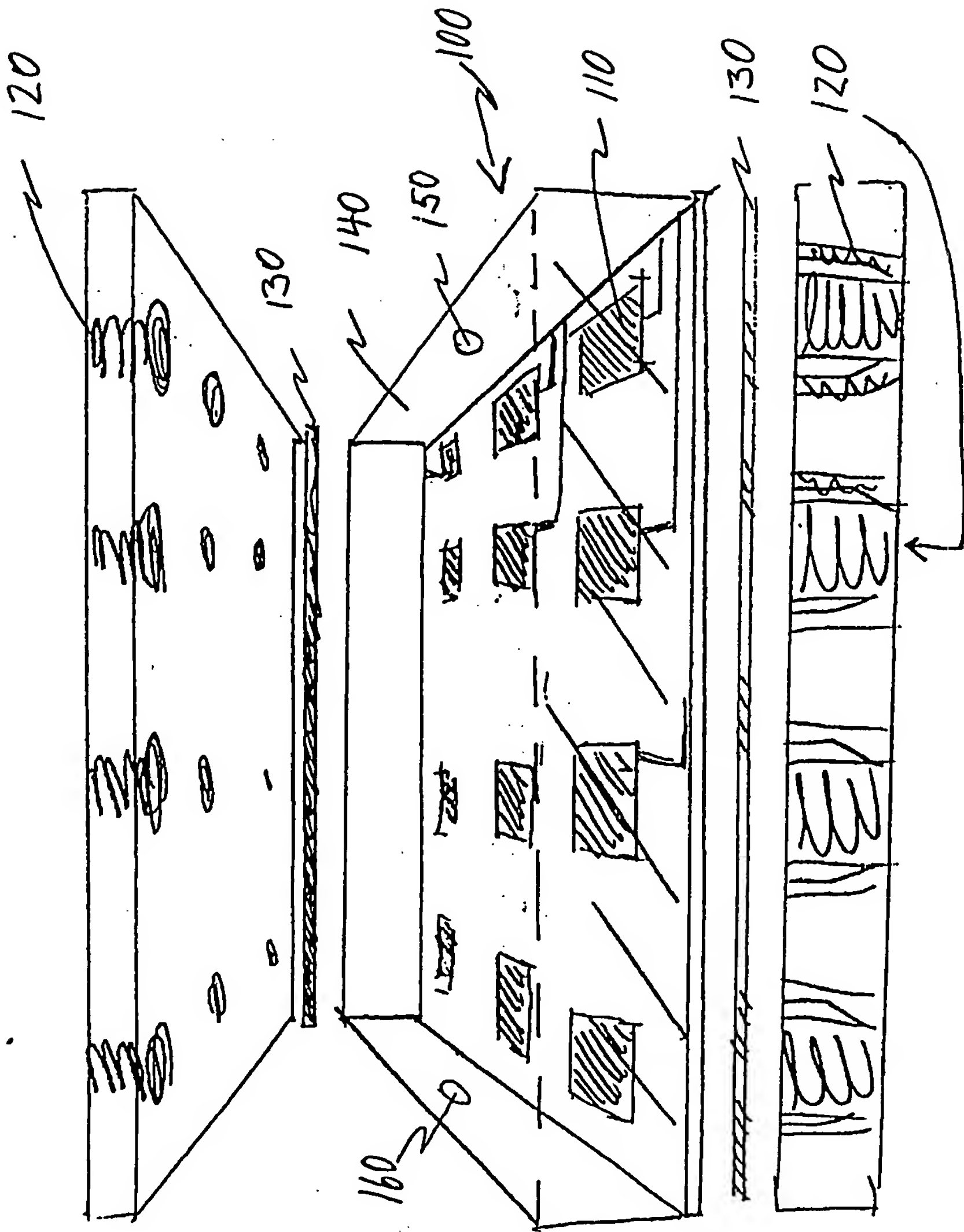


FIG. 18

FIG. 19



~~Fig. 19~~

Fig. 19